

Recombinant Human complement component 5 Protein, His tagged

Cat. No. C5-082H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human Complement Component C5a protein (P01031) (Gln19-Lys 821) with a His tag at the C-terminus was expressed in HEK293.

Species Human

Source HEK293

ProteinLength 19-821aa

Description Activation of C5 by a C5 convertase initiates the spontaneous assembly of the late complement components, C5-C9, into the membrane attack complex. C5b has a transient binding site for C6. The C5b-C6 complex is the foundation upon which the lytic complex is assembled. Derived from proteolytic degradation of complement C5, C5a anaphylatoxin is a mediator of local inflammatory process. Binding to the receptor C5AR1 induces a variety of responses including intracellular calcium release, contraction of smooth muscle, increased vascular permeability, and histamine release from mast cells and basophilic leukocytes. C5a is also a potent chemokine which stimulates the locomotion of polymorphonuclear leukocytes and directs their migration toward sites of inflammation.

Tag C-His

Molecular Mass 91.5 kDa

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| | |
|-----------------------|---|
| Endotoxin | Less than 1.0 EU/μg by the LAL method. |
| Purity | >95% as determined by SDS-PAGE. |
| Storage | Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles. |
| Storage Buffer | Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol. |
| Reconstitution | Reconstitute at 250 μg/mL in sterile water. |

GENE INFORMATION

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|------------------------|--|
| Gene Name | C5 complement component 5 [Homo sapiens (human)] |
| Official Symbol | C5 |
| Synonyms | C5; complement component 5; complement C5; CPAMD4; anaphylatoxin C5a analog; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4; FLJ17816; FLJ17822; MGC142298; |
| Gene ID | 727 |
| mRNA Refseq | NM_001735 |
| Protein Refseq | NP_001726 |
| MIM | 120900 |

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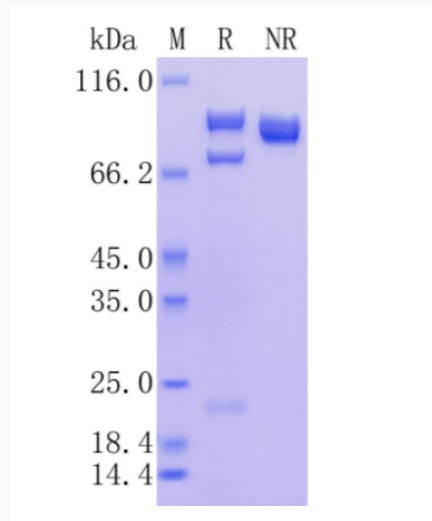
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UniProt ID

P01031

Protein on SDS-
PAGE under
reducing (R) and Non
Reducing condition.



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